# FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB Number: 3235-0287 Estimated average burden

Estimated average burden hours per response: 0.5

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| 1. Name and Address of Reporting Person*<br>JACOBS CINDY |         |          | 2. Issuer Name and Ticker or Trading Symbol<br>ACHIEVE LIFE SCIENCES, INC. [ ACHV ]   | (Check          | 5. Relationship of Reporting Person(s) to Issuer<br>(Check all applicable)                          |                                       |  |  |  |
|--|---------|----------|---|-----------------|---|---------------------------------------|--|--|--|
| (Last) (First)   |         | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year)<br>04/21/2023  |                 | Director<br>Officer (give title<br>below)   | 10% Owner<br>Other (specify<br>below) |  |  |  |
| 22722 29TH D   | R SE    |          |   |                 | President &   | с CMO                                 |  |  |  |
| SUITE 100  |         |          | 4. If Amendment, Date of Original Filed (Month/Day/Year)<br>04/24/2023  | 6. Indiv        | 6. Individual or Joint/Group Filing (Check Applicable Line)<br>X Form filed by One Reporting Person |                                       |  |  |  |
| (Street)   | WA      | 98021    |   |                 | , ,   | n One Reporting Person                |  |  |  |
|  |         | 50021    | Rule 10b5-1(c) Transaction Indication   |                 |   |                                       |  |  |  |
| (City)   | (State) | (Zip)    | Check this box to indicate that a transaction was made pursuant to a cor<br>affirmative defense conditions of Rule 10b5-1(c). See Instruction 10. | ntract, instruc | ction or written plan that is int   | ended to satisfy the                  |  |  |  |

#### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. 1 | Title of Security (Instr. 3) | 2. Transaction<br>Date<br>(Month/Day/Year) | Execution Date, |      | tion<br>istr. | 4. Securities Acquired (A) or<br>Disposed Of (D) (Instr. 3, 4 and 5) |               |              | Securities<br>Beneficially Owned<br>Following Reported | 6. Ownership<br>Form: Direct (D)<br>or Indirect (I)<br>(Instr. 4) | Beneficial<br>Ownership |
|------|------------------------------|--|-----------------|------|---------------|--|---------------|--------------|--|---|-------------------------|
|      |                              |  |                 | Code | v             | Amount   | (A) or<br>(D) | Price        | Transaction(s)<br>(Instr. 3 and 4)                     |   | (Instr. 4)              |
| Co   | ommon Stock                  | 04/21/2023                                 |                 | F    |               | 3,811(1)   | D             | <b>\$6.8</b> | 16,370(2)  | D   |                         |

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of<br>Derivative<br>Security (Instr. 3) | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security | 3. Transaction<br>Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year) | 4.<br>Transaction<br>Code (Instr.<br>8) |   | 5. Number of<br>Derivative<br>Securities<br>Acquired (A)<br>or Disposed of<br>(D) (Instr. 3, 4<br>and 5) |     | Expiration Date<br>(Month/Day/Year) |                    | 7. Title and Amount of<br>Securities Underlying<br>Derivative Security<br>(Instr. 3 and 4) |                                     | 8. Price of<br>Derivative<br>Security<br>(Instr. 5) | 9. Number of<br>derivative<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported | Form:<br>Direct (D) | Beneficial<br>Ownership<br>(Instr. 4) |
|--|---|--|---|---|---|--|-----|-------------------------------------|--------------------|--|-------------------------------------|---|--|---------------------|---------------------------------------|
|  |   |  |   | Code                                    | v | (A)  | (D) | Date<br>Exercisable                 | Expiration<br>Date | Title  | Amount<br>or<br>Number<br>of Shares |   | Transaction(s)<br>(Instr. 4)   |                     |                                       |

#### Explanation of Responses:

1. This amended Form 4 is filed to correct an administrative error which applied additional taxes and misreported the number of shares of common stock withheld by the issuer to satisfy the tax liability in connection with the settlement of performance restricted stock units. 3,811 shares were withheld instead of 4,819.

2. The number of shares beneficially owned by the reporting person increased from 15,362 shares to 16,370 shares.

### Remarks:

Sandra Thomson as attorney-infact for Cindy Jacobs 04/25/2023

Date

\*\* Signature of Reporting Person

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

\* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.

OMB APPROVAL